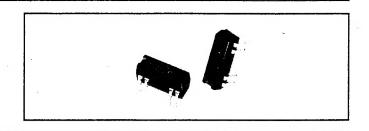
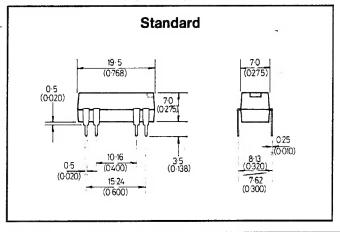
# 700 SERIES

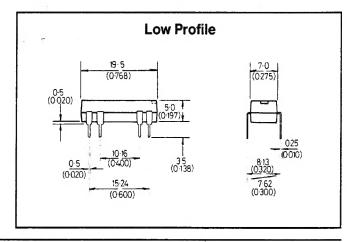
### **DUAL-IN-LINE Reed Relays**

- transfer molded relays in IC style packages
- designed for automatic insertion into IC-sockets or PC boards



### 11 Dimensions (in mm, () = in inches)





# **D** General Specifications

#### **Electrical Data**

Voltage Hold-off (at 50 Hz, 23° C, 40% RH) 500 V d.c. coil to contact (for relays with contact type 5, 2500 V d.c.) spare pins removed coil to electrostatic shield 150 V d.c. between all other mutually insulated terminals 500 V d.c. Insulation resistance (at 23° C, 40% RH)  $10^{10} \Omega$  min. coil to contact

(at 100 V d.c.)

#### **Mechanical Data**

Shock (for Hg-wetted contacts	50 g (11 ms) 1/2 sine wave 5 g (11 ms) 1/2 sine wave)
Vibration (for Hg-wetted contacts	20 g (10 – 2000 Hz) consult HAMLIN office)
Temperature Range (for Hg-wetted contacts	-40 to +85° C -38 to +85° C)
Drain time (for Hg-wetted contacts)	30 sec. after reaching vertical position
Mounting (for Hg contacts type 3	any position 30° max. from vertical)
Pins	tin plated, solderable, ☑ Ø 0,6 mm (0.0236") max.

## **El Contact Characteristics**

Contact type number	2	2	3	4	5	
Characteristic		Dry		Hg-wetted	Hg-wetted all position	Dry pressurized
Contact Form		Α	B/C	A	Α	Α
Contact Rating, max.	W	10	3	50	3	10
Switching Voltage, max.	V d.c.	200	200	400	28	300
Switching Current, max.	Α	0.5	0.25	2.0	0.10	0.5
Carry Current, max.	Α	1.5	1.2	3.0	1.0	1.5
Min. Voltage Hold-off across contacts	V d.c.	250	250	1000	1000	800
Insulation Resistance, min.	Ω	1010	109	1010	1010	1010
Initial Contact Resistance, max.	Ω	0.200	0.200	0.070	0.100	0.200

### Operating life (in accordance with ANSI, EIA/NARM-Standard) — Number of operations

-	•	•	•	-		
Load	10 mA/5 V d.c.	5 × 10 <sup>7</sup>	10 <sup>7</sup>	109	10 <sup>7</sup>	5 × 10 <sup>7</sup>
	100 mA/12 V d.c.	10 <sup>7</sup>	7 × 10 <sup>6</sup>	10 <sup>9</sup>	5 × 106	107
	250 mA/28 V d.c.	5 × 10 <sup>6</sup>		108	_	5 × 106
	1 A/28 V d.c.	_	_	4 × 10 <sup>7</sup>	_	_
	10 mA/220 V a.c.	-	_	4 × 10 <sup>7</sup>	_	4 × 10 <sup>6</sup>

# ☐ Coil characteristics (at 23° C)

Contact form	Coil voltage V d.c.	Relay part number*	Coil resistance Ω (±10%)	Must operate voltage max. V d.c.	Must release voltage min. V d.c.	Operate time max. ms	Release time** max. ms
Dry contacts			•				
	5	HE721A04	500	3.80	0.8		
	5	HE721A05□□	380	3.50	1.0	0.5	
1 A	12	HE721A12□□	530	8.00	2.0		0.5
Low Profile	15	HE721A15□□	2000	11.50	3.0		
	24	HE721A24□□	2000	16.00	4.0		
1 A	5	HE721A05□□	500	3.75	0.5		
Standard	12	HE721A12	1000	8.00	1.0	0.5	0.5
Otarioura	24	HE721A24□□	2150	16.00	2.0	0.5	
	5	HE722A05□□	200	3.75	0.5		
2 A	12	HE722A12□□	500	8.00	1.0		0.5
	24	HE722A24□□	2150	16.00	2.0	0.5	
	5	HE721B05□□	200	3.75	0.5		0.5
1 B	12	HE721B12	500	8.00	1.0		
	24	HE721B24□□	2000	16.00	2.0	0.5	
	5	HE721C05□□	200	3.75	0.5		
1 C	12	HE721C12	500	8.00	1.0		0.2
	24	HE721C24□□	2000	16.00	2.0	1.5	1.5
lg-wetted co		0° from vertical					
	5	HE731A05□□	55	3.75	0.5	2.0	2.0
1 A	12	HE731A12□□	300	9.00	1.0		
-	24	HE731A24□□	1100	18.00	2.0	2.0	
lg-wetted co	· · · · · · · · · · · · · · · · · · ·			•			
1 A	5	HE741A05□□	55	3.75	0.5	3.0	3.0
	12	HE741A12□□	300	9.00	1.0		
	24	HE741A24□□	1150	18.00	2.0	3.0	
ligh voltage	hold-off co	ontacts					
	5	HE751A05□□	500	3.75	0.5		
1 A	12	HE751A12□□	1000	8.00	1.0	0.5	
	24	HE751A24□□	2150	16.00	2.0		0.5

Please specify the missing digits □ of relay part number as shown in the ordering guide.

Note: Electrostatic shield not available on low profile versions.

On most types magnetic shield option is available. For details contact HAMLIN sales office.

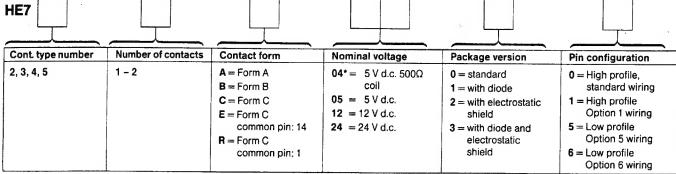
# **⑤ Connections** (viewed from above) – 2.54 mm (0.1") grid

1 Form A, Standard and Option 5, HE721A, HE 731A, HE 741A	1 Form A, Option 1 and 6, HE 721A	2 Form A HE722A	1 Form B HE721B	1 Form C HE721C	<b>1 Form A</b> HE751A	1 Form C HE721E	1 Form C HE721R
UP	55						

UP indicates mounting position for relays with Hg-wetted contact type 3.

ES = indicates pin for electrostatic shield

# **Ordering** guide



<sup>\*</sup> This code is only valid for low profile version (option 5 and 6).

<sup>\*\*</sup> Release time will be increased with diode option.